

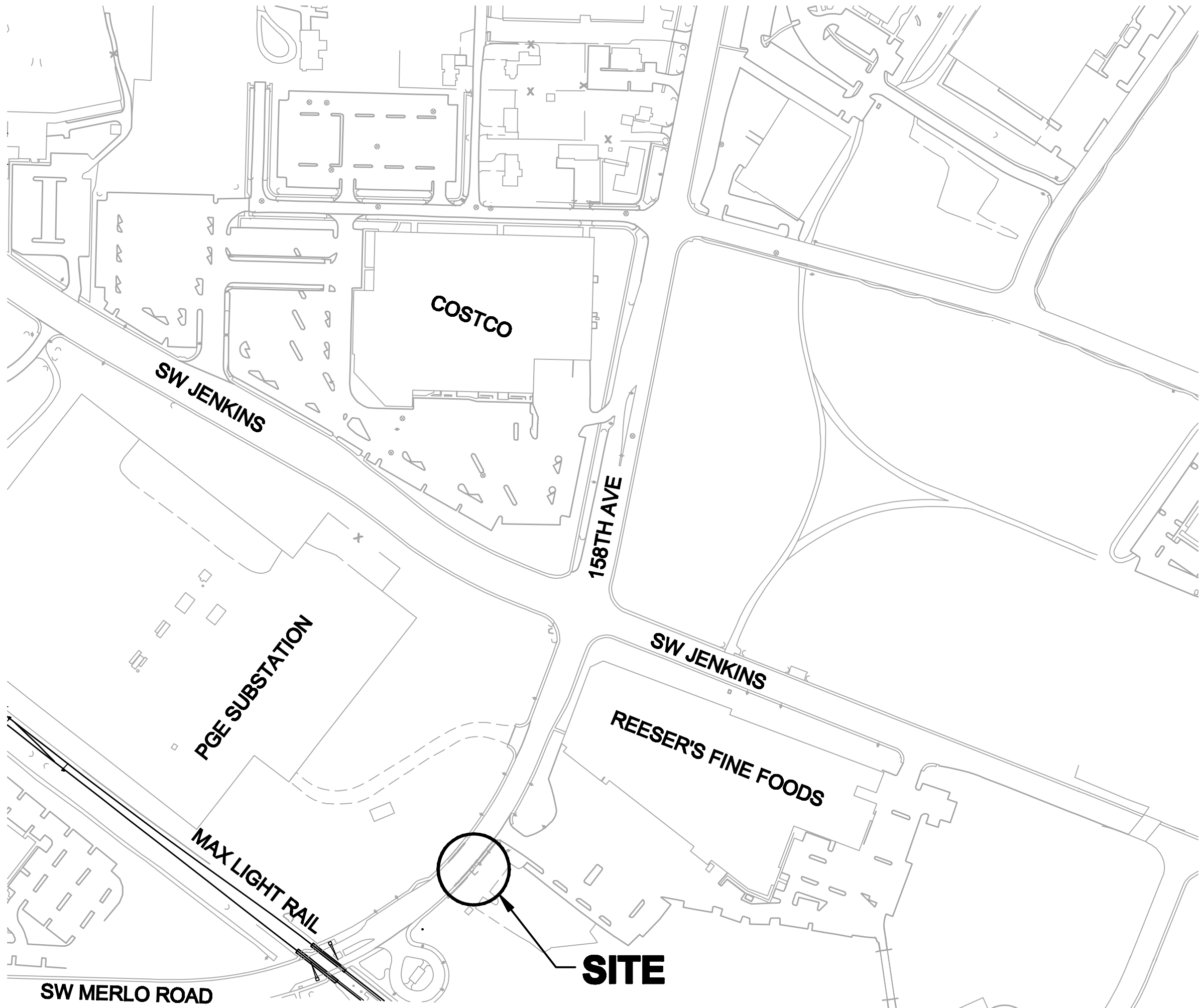
ABBREVIATIONS & SYMBOLOLOGY

EXISTING	PROPOSED	EXISTING
WATER VALVE	WV	CABLE TV
WATER METER	WM	POWER
HYDRANT		FIBER OPTICS
FDC		GAS
BLOW OFF		TELEPHONE
HOSE BIB		STORM
AIR RELEASE		WATER
WATER VAULT		SANITARY
WELL		RIGHT OF WAY
REDUCER		CL ROW
THRUST BLOCK		PROP LINE
UTILITY POLE		ABANDONED UTILITY
GUY WIRE		
ELECT. VAULT		PROPOSED
TEL MANHOLE		CABLE TV
TEL VAULT		POWER
TEL PEDESTAL		FIBER OPTICS
CABLE RISER		GAS
GAS METER		TELEPHONE
GAS RISER		STORM
GAS VALVE		WATER
LIGHT		SANITARY
SIGNAL		RIGHT OF WAY
JUNCTION BOX		CL ROW
STREET LIGHT		PROP LINE
POWER METER		
SAN CLEANOUT		
SANITARY MANHOLE		
STORM CLEANOUT		
STORM MANHOLE		
CATCH BASIN		
DECID TREE		
CONFIR TREE		
SIGN		
MAILBOX		
BOLLARD		
BARRICADE		

SW 158TH AVENUE  
STORM PRETREATMENT  
STRUCTURE  
CITY OF BEAVERTON  
PUBLIC UTILITY IMPROVEMENT



PUBLIC WORKS DEPARTMENT

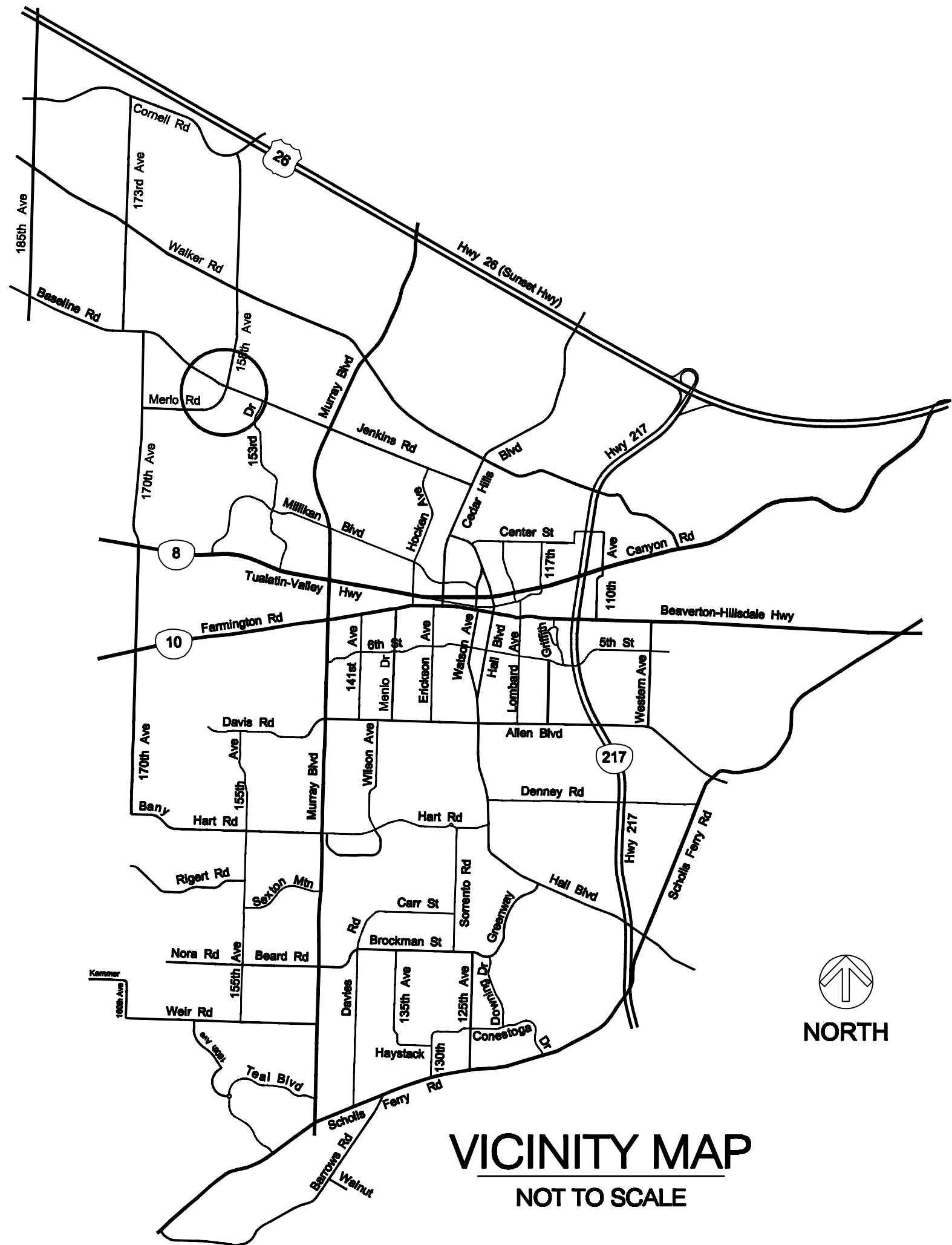


PROJECT SITE MAP

1" = 200'



NAD 83 OREGON STATE PLANE, NORTH ZONE, INTERNATIONAL FOOT



POTENTIAL UNDERGROUND FACILITY OWNERS

**DIG SAFELY**  
CALL THE OREGON ONE-CALL CENTER  
1-800-332-2344

EMERGENCY TELEPHONE NUMBERS

NW NATURAL GAS 503-226-4211 EXT.4313  
M-F 7am-5pm  
AFTER HOURS 503-226-4211

PGE 503-464-7777  
QWEST 1-800-573-1311  
VERIZON 1-800-483-1000

NOTICE TO EXCAVATORS:

ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503)-232-1987).

RELEASES AND  
SHEET INDEX

1	CONSTRUCT SET	10/06/09
1	1ST SUBMITTAL	8/04/09
CIVIL PLANS		
1	TITLE SHEET	
2	GENERAL NOTES	
3	STORM PLAN & PROFILE	
4	DETAILS	
5	VAULT SHOP DRAWINGS	



PROJECT INTENT - PRETREATMENT OF SURFACE  
WATER RUNOFF. CONSTRUCTED BY CITY FORCES



CITY OF BEAVERTON  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

DESIGNED BY:	MB	NO.	1	DATE	10/06/09	REVISION	CONSTRUCTION SET - ADJUSTED TO FIT VAULT SHOP DRAWINGS	BY	MB
DRAWN BY:	AB								
CHECKED BY:	MB								
APPROVED BY:	MB								

SW 158TH AVENUE - STORM  
PRETREATMENT STRUCTURE

TITLE SHEET

DATE: 8/04/09	PROJECT NO: 8073
SHEET NO:	1 OF 5

THIS DRAWING IS FULL SIZE WHEN 22" X 34" OR IS REDUCED TO HALF SCALE WHEN 11" X 17"

FILE: X:\CAD SERVICES\DRAWINGS\2009\8073 - 158th Wq Outfall\CADD\8073-158th Outfall - SITE.dwg TAB: Cover - SHEET 1  
PLOTTED: 10/12/09 AT 7:57AM BY: aborrett

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GENERAL CONSTRUCTION NOTES

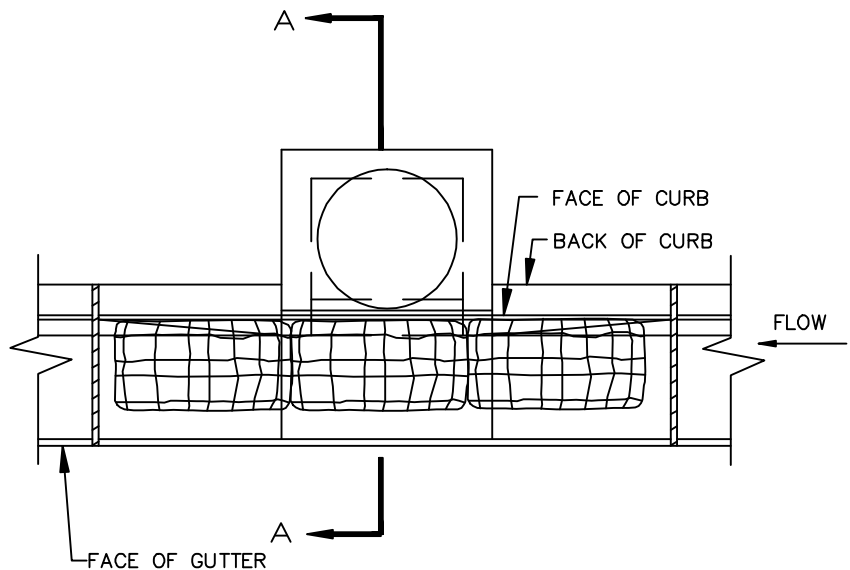
1. THE CONTRACTOR SHALL NOTIFY THE CITY INSPECTOR AT LEAST 48 HOURS (TWO FULL WORKING DAYS) PRIOR TO BEGINNING THE PROJECT. CONNECTIONS BETWEEN EXISTING INFRASTRUCTURE AND NEW WORK SHALL NOT BE MADE UNTIL NECESSARY INSPECTIONS AND TESTS HAVE BEEN COMPLETED ON THE NEW WORK AND IT IS FOUND TO CONFORM IN ALL RESPECTS TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS.
2. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES WHERE FACILITIES CROSS. CONTRACTOR SHALL POT HOLE EXISTING UTILITIES 200 FEET AHEAD OF LAYING PIPE AT ALL CROSSINGS. IF CONFLICTS ARISE, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION. UTILITY LOCATE ONE CALL # 1-800-332-2344
3. ALL CONSTRUCTION IS TO BE PERFORMED IN ACCORDANCE WITH THE MOST RECENT VERSION OF CITY OF BEAVERTON STANDARDS, OREGON APW/ODOT STANDARD SPECIFICATIONS, CLEAN WATER SERVICES (CWS) STANDARDS (INCLUDING EROSION PREVENTION AND SEDIMENT CONTROL) AND THE OREGON ADMINISTRATION RULES (OAR), CHAPTER 333, UNLESS NOTED ON THE PLANS OR SPECIFIED OTHERWISE.
4. ALL EXISTING UTILITIES DISTURBED BY CONTRACTOR SHALL BE REPAIRED IMMEDIATELY AND THE RESPECTIVE UTILITY COMPANY NOTIFIED OF THE DISTURBANCE WITHOUT DELAY.
5. CONTRACTOR SHALL SUBMIT "AS-BUILT" INFORMATION TO THE OWNER'S REPRESENTATIVE UPON COMPLETION OF CONSTRUCTION.
6. THE CONTRACTOR SHALL NOT DAMAGE OR CUT EXISTING A.C. PIPE. EXCAVATE AND EXPOSE EXISTING A.C. PIPE UNTIL APPROPRIATE JOINTS ARE EXPOSED. DISCONNECT THE A.C. PIPE JOINT AND REMOVE THE APPROPRIATE SECTIONS OF A.C. PIPE WITHOUT CUTTING OR DAMAGING THEM. DISPOSE OF REMOVED A.C. PIPE IN A LEGAL MANNER AND IN CONFORMANCE WITH THE REQUIREMENTS OF AUTHORITIES CONTROLLING AIR POLLUTION AND SOLID WASTE DISPOSAL. CONTRACTOR SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF OREGON REVISED STATUTES (ORS) 468A.700 THROUGH 468A-760.
7. FINAL LOCATIONS OF ALL VALVES AND VALVE BOXES, FIRE HYDRANTS, AIR RELEASE ASSEMBLIES, SERVICE CONNECTION CORP STOPS, DRIVEWAY APRONS, SEWER LATERALS, PERMANENT SIGNS, AND CATCH BASINS SHALL BE FIELD LOCATED. THE CONTRACTOR SHALL COORDINATE FINAL LOCATIONS OF THE DESCRIBED ITEMS WITH THE OWNER'S REPRESENTATIVE.
8. UTILITY CONSTRUCTION SEQUENCING WILL BE REQUIRED IN ORDER TO PREVENT CONFLICTS WITH EXISTING UTILITIES REMAINING IN SERVICE UNTIL NEWLY INSTALLED UTILITIES ARE CONNECTED AND IN SERVICE. CONTRACTOR SHALL SEQUENCE UTILITY WORK INCLUDING TEMPORARY CONNECTIONS AND BYPASSES AS REQUIRED SUCH AS TO MINIMIZE DISRUPTION OF SERVICES. SEE SECTION 106.4.01 WITHIN THE SPECIFICATIONS REGARDING CONSTRUCTION SEQUENCING REQUIREMENTS FOR THIS PROJECT.
9. MAINTENANCE OF THE WORK AREA AND APPROACH ROADS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE WORK AREA AND APPROACH ROADS SHALL BE MAINTAINED IN A CLEAN CONDITION, FREE FROM OBSTRUCTIONS AND HAZARDS.
10. ANY CHANGE IN CONSTRUCTION AFTER PLAN APPROVAL MUST BE SUBMITTED IN WRITING AND APPROVED BY THE CITY PRIOR TO CHANGE.
11. AT THE END OF EACH WORK DAY ALL TRENCHES SHALL BE BACKFILLED AND ALL TRENCHES WITHIN STREETS SHALL BE TEMPORARY PAVED OR COVERED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE. STEEL SHEET PLACEMENTS SHALL BE LIMITED TO 36 HOURS IN ANY ONE LOCATION. BEYOND 36 HOURS, EXCAVATIONS SHALL BE PAVED. AC PAVEMENT EITHER TEMPORARY OR PERMANENT, SHALL BE HOT MIX BITUMINOUS ASPHALT. NO TRENCH, ON-SITE OR OFF-SITE, SHALL BE LEFT AT ANY TIME IN AN UNSAFE CONDITION. THE CONTRACTOR IS RESPONSIBLE FOR AND IS LIABLE FOR HAZARDS OR DAMAGE RESULTING FROM THE PROSECUTION OF THE WORK.
12. EFFECTIVE EROSION CONTROL, DUST CONTROL, AND DRAINAGE CONTROL IS REQUIRED AT ALL TIMES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROTECTION OF ALL WORK, ADJACENT PROPERTIES AND DOWNSTREAM FACILITIES FROM EROSION AND SILTATION DURING THE COURSE OF THE WORK. ANY DAMAGE RESULTING FROM SUCH EROSION AND SILTATION SHALL BE CORRECTED AT THE SOLE EXPENSE OF THE CONTRACTOR.
13. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS. IF A DRIVEWAY MUST BE BLOCKED, THE CONTRACTOR SHALL GIVE THE HOMEOWNER, APARTMENT MANAGER AND/OR BUILDING OWNER 24 HOURS NOTICE AND SHALL ENSURE ACCESS TO DRIVEWAYS AT THE END OF EACH WORK DAY.
14. THE CONTRACTOR SHALL EXERCISE ALL DUE CARE IN PROTECTING PROPERTY ALONG THE ROUTE OF THE IMPROVEMENTS. THIS PROTECTION SHALL INCLUDE, BUT NOT BE LIMITED TO, TREES, YARDS, FENCES, DRAINAGE LINES, MAIL BOXES, DRIVEWAYS, SHRUBS, LAWNS, IRRIGATION SYSTEMS, WITHIN ANY RIGHTS-OF-WAYS AND EASEMENTS. IF ANY OF THE ABOVE HAVE BEEN DISTURBED, THEY SHALL BE RESTORED AS NECESSARY TO AS NEAR THEIR ORIGINAL CONDITION AS POSSIBLE OR REPLACED IN KIND.
15. ALL SURVEY MONUMENTS SHALL BE LOCATED AND PROTECTED, EXCEPT AS SPECIFICALLY DIRECTED BY THE CITY ENGINEER.
16. THE CONTRACTOR SHALL PERFORM ALL THE WORK SHOWN ON THE DRAWINGS AND ALL INCIDENTAL WORK CONSIDERED NECESSARY TO COMPLETE THE PROJECT IN AN ACCEPTABLE MANNER.
17. THE CONTRACTOR AND OR SUB-CONTRACTOR SHALL HAVE A MINIMUM OF ONE SET OF CITY APPROVED CONSTRUCTION PLANS ON THE JOB SITE AT ALL TIMES DURING EACH CONSTRUCTION PHASE WHILE WORK IS BEING DONE.
18. ALL MATERIAL SUPPLIERS SHALL SUBMIT TO THE ENGINEER PROOF OF MATERIAL(S) TESTED IN ACCORDANCE WITH SPECIFICATIONS. BY ACCEPTANCE OF THE CONTRACT WITH THE OWNER/DEVELOPER, THE CONTRACTOR CERTIFIES THAT ALL MATERIALS DELIVERED TO THE JOB SITE WILL MEET OR EXCEED THOSE SPECIFICATIONS. ANY MATERIAL NOT CONFORMING SHALL BE REMOVED FROM THE SITE AT NO ADDITIONAL COST TO THE OWNER.
19. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL LEAVE THE PROJECT AREA FREE OF DEBRIS AND UNUSED MATERIALS.

TRAFFIC CONTROL NOTES

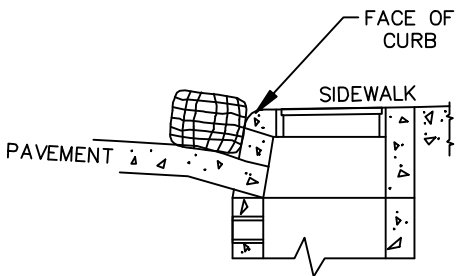
1. TRAFFIC CONTROL TO BE PERFORMED IN ACCORDANCE WITH THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES AND OREGON AMENDMENTS AS REQUIRED. THE CITY CAN REQUIRE ADDITIONAL TRAFFIC CONTROL MEASURES AS NEEDED TO PROVIDE FOR PUBLIC SAFETY.
2. ON RESIDENTIAL LOCAL STREETS, THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL REQUIRED TRAFFIC CONTROL WHEN WORK IS BEING DONE IN THE RIGHT OF WAY.
3. ALL TRAFFIC CONTROL MEASURES NEED TO BE SUBMITTED TO THE CITY OF BEAVERTON FOR REVIEW AT LEAST 5 (FIVE WORKING DAYS PRIOR TO CONSTRUCTION. ALL STREET CLOSURES SHALL BE APPROVED BY THE CITY TRAFFIC ENGINEER, AT LEAST 5 (FIVE) WORKING DAYS IN ADVANCE.
4. UPON APPROVAL, THE CONTRACTOR SHALL NOTIFY THE BEAVERTON POLICE DEPARTMENT, TUALATIN VALLEY FIRE AND RESCUE AND THE BEAVERTON SCHOOL DISTRICT TRANSPORTATION OFFICE AT LEAST 48 HOURS IN ADVANCE OF ANY STREET CLOSURE.
5. TRAFFIC CONTROL PLANS SHALL COMPLY WITH THE OREGON DEPARTMENT OF TRANSPORTATION - "SHORT TERM TRAFFIC CONTROL HANDBOOK". TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" PREPARED BY THE FEDERAL HIGHWAY ADMINISTRATION, LATEST REVISION. CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS SPECIFIED IN ROAD PERMITS ISSUED FOR THIS PROJECT.
6. CONTRACTOR SHALL COORDINATE ALL STREET AND SIDEWALK CLOSURES WITH THE CITY. CONTRACTOR SHALL SUPPLY SIGNING AND BARRICADES AS REQUIRED TO ASSURE AUTOMOTIVE AND PEDESTRIAN SAFETY.

EROSION CONTROL STANDARD NOTES

1. APPROVAL OF THIS EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.
3. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS.
4. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT LEAVE THE SITE.
5. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
6. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 24 HOURS FOLLOWING A STORM EVENT.
7. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A TRAPPED CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.
8. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.



PLAN VIEW



SECTION A-A

- NOTE:
1. FOR USE IN SHORT TERM APPLICATIONS ONLY.
  2. CONTRACTOR RESPONSIBLE FOR ADEQUATE NUMBER OF HAY BALES, PROVIDE ONE FULL BALE EACH SIDE OF CURB OPENING WITH NO GAPS OR OPENINGS IN CONTROL DEVICE.
  3. THE SEDIMENT CONTROL DEVICE SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN 48 HRS OF A STORM EVENT.

BIO-BAG INLET BARRIER  
AT CURB INLET

PROJECT INTENT - PRETREATMENT OF SURFACE  
WATER RUNOFF. CONSTRUCTED BY CITY FORCES  
NAD 83 OREGON STATE PLANE, NORTH ZONE, INTERNATIONAL FOOT

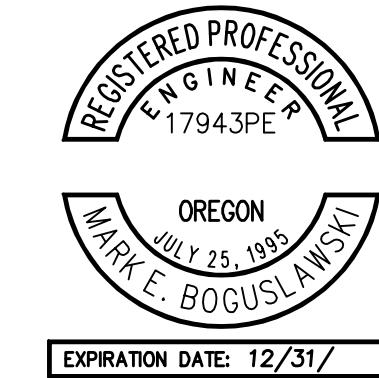


CITY OF BEAVERTON  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

DESIGNED BY:	MB	NO.		DATE		REVISION		BY	
DRAWN BY:	AB	1	10/06/09	CONSTRUCTION SET - ADJUSTED TO FIT VAULT SHOP DRAWINGS				M	
CHECKED BY:	MB								
APPROVED BY:	MB								

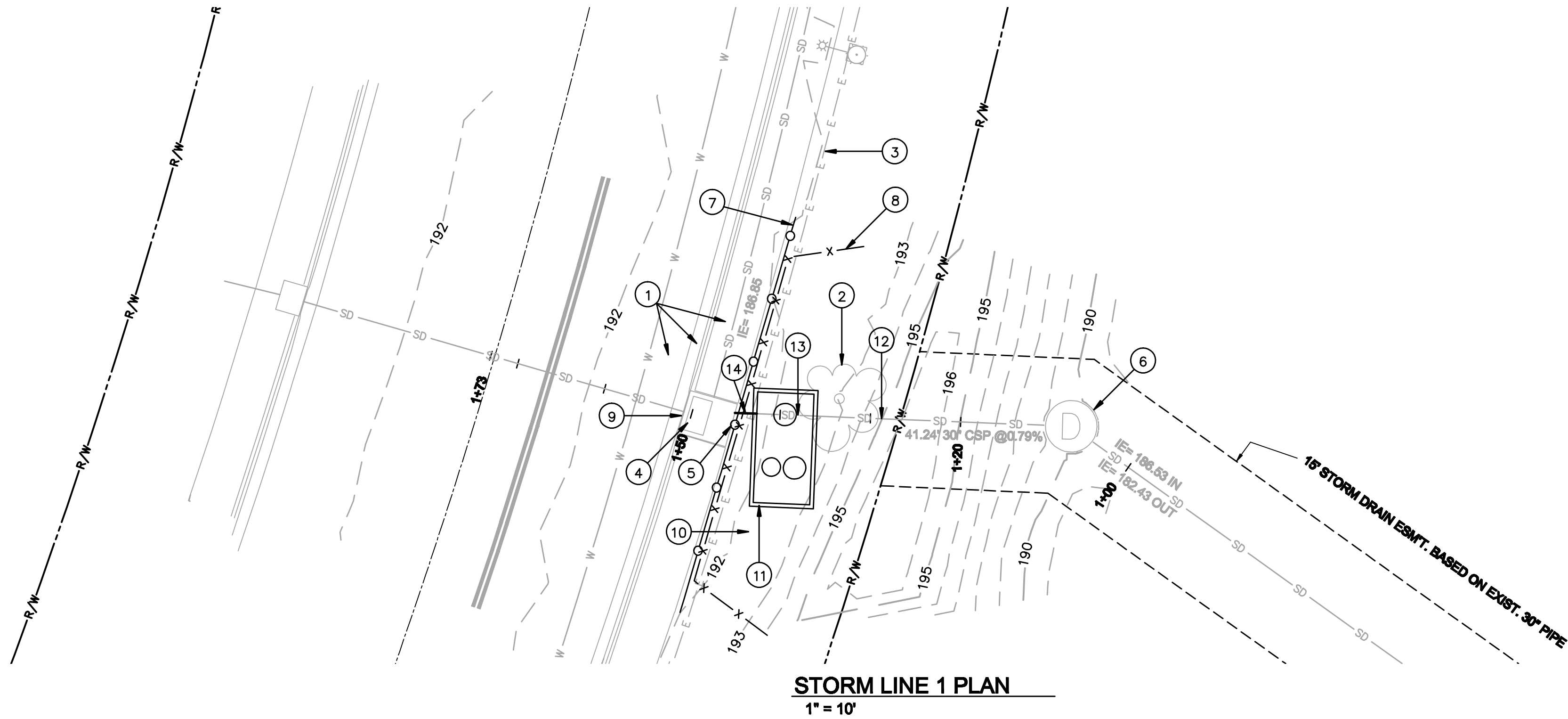
SW 158TH AVENUE - STORM  
PRETREATMENT STRUCTURE

GENERAL NOTES



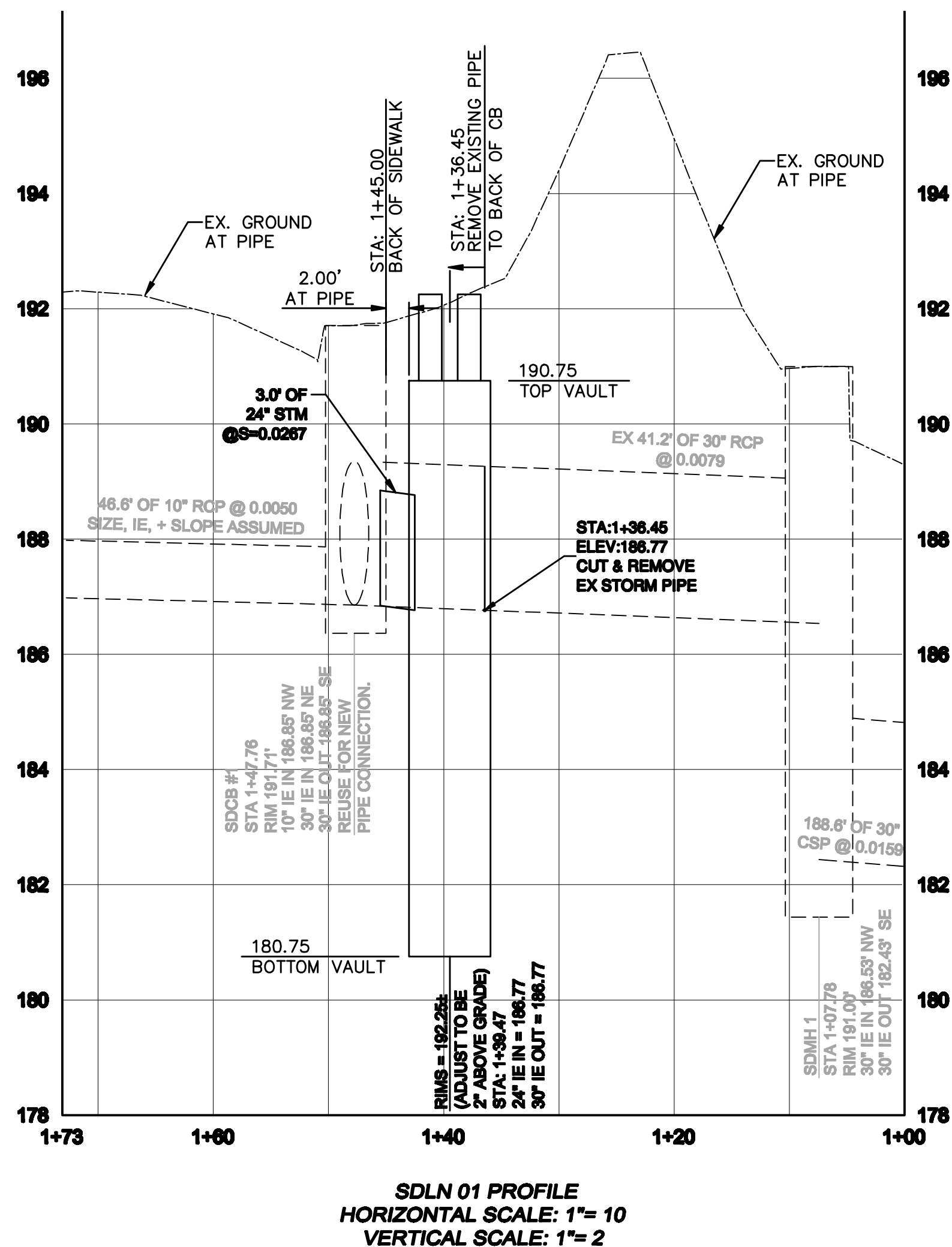
DATE: 8/04/09	PROJECT NO: 8073
SHEET NO:	2 of 5

THIS DRAWING IS FULL SIZE WHEN 22" X 34" OR IS REDUCED TO HALF SCALE WHEN 11" X 17"



#### STORM NOTES

1. PROTECT EXISTING PAVEMENT, SIDEWALK, AND GUTTER AT ALL TIMES.
2. REMOVE EXISTING TREE. EXCAVATE OUT AROUND ROOT BALL AND SET ASIDE TO REPLANT AT END OF PROJECT. DETERMINE IN FIELD IF TREE CAN BE SAVED AT TIME OF EXCAVATION AND PROJECT COMPLETION. REPLACE TREE WITH SIMILAR TYPE AND SIZE IF EX TREE IS NOT SALVAGEABLE.
3. SUSPECTED ELECTRICAL LINE LOCATIONS FOR STREET LIGHTS AND/OR TRAFFIC SIGNALS. LOCATE TICKET #9089042 MAY 8TH, 2009. STREET LIGHT AND TRAFFIC SIGNALS CONDUITS WERE NOT LOCATED BY RESPECTIVE OWNER. KEVEN ELLINGTON (WACO) CALLED ON 8-5-09 AND STATED THAT WACO WOULD PROVIDE LOCATES FOR STREET AND SIGNAL CONDUITS. PHONE: 503-846-7954.
4. EXISTING CATCH BASIN TO REMAIN.
5. 1+45.00 = BACK OF SIDEWALK AT CB. CAN BE USE AS A REFERENCE DURING CONSTRUCTION. ELEV=191.75
6. PROTECT EXISTING STORM MANHOLE AT ALL TIMES
7. INSTALL ORANGE CONSTRUCTION FENCING.
8. INSTALL SEDIMENT FENCE. TO BE IN PLACE IF RAIN IS FORECASTED.
9. INSTALL INLET PROTECTION. INSTALL INLET PROTECTION AT NEXT DOWN STREAM INLET (IF ANY).
10. POSSIBLE IRRIGATION SYSTEM IN AREA. USE CAUTION WHILE EXCAVATING. DAMAGED SECTIONS MUST BE REPAIRED.
11. INSTALL TREATMENT VAULT. INSTALL EDGE OF VAULT 2.0' FROM SIDEWALK EDGE. SEE VAULT DETAILS.
12. REMOVE AND RELAY EX PIPE SECTIONS AND BEND PIPE AT JOINTS TO MAKE PIPE CONNECTION TO VAULT WORK. DETERMINE IN FIELD.
13. REMOVE EXISTING SECTION OF STORM PIPE.
14. INSTALL NEW STORM PIPE. SEE PROFILE.



#### SUGGESTED CONSTRUCTION SEQUENCE

1. GET BIDS ON COMPETING STURCTURES (SHEET 4A VS 4B).
2. OBTAIN CORRECT SHOP DRAWINGS FROM SUCCESSFUL BIDDER. PROJECT ENGINEER TO APPROVE.
3. CALL FOR LOCATES.
4. INSTALL INLET PROTECTION, SEDIMENT FENCING, ORANGE CONSTRUCTION FENCING AS NECESSARY.
5. REMOVE EXISTING TREE. SEE CONSTRUCTION NOTES.
6. DETERMINE IF STREET LIGHTING CONDUIT, IRRIGATION LINES, OR OTHER CONDUIT EXISTS IN PROJECT AREA. CONTACT PROJECT ENGINEER IF CONDUITS EXIST. VAULT LOCATION MAY NEED FIELD LOCATION ADJUSTMENT IF CONDUITS EXIST.
7. EXCAVATE FOR UTILITY VAULT. OVER EXCAVATION WILL BE NEEDED FOR TRENCH SHORING, AND VAULT ADJUSTMENT.
8. CUT AND REMOVE EXISTING 30" PIPE. REMOVE PIPE TO BACK OF CATCH BASIN.
9. HAMMER AND REMOVE EXISTING CB WALL AS NEEDED TO PLACE NEW 24" LINE ALONG NEW ALIGNMENT, MATCH INVERT.
10. PLACE 24" PIPE ALONG ALIGNMENT, AND SLIP AS MUCH AS PRACTICAL INSIDE THE CATCH BASIN. DO NOT SET PIPE. PIPING WILL BE MOVED AND FINALIZED AFTER THE VAULT IS IN PLACE.

#### NOTE:

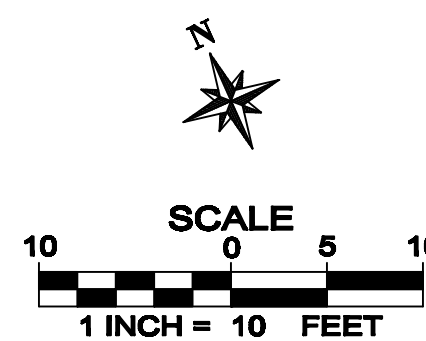
THE EXISTING 30" PIPE SIZE IS SUBSTANTIALLY LARGER THAN IT NEEDS TO BE TO CONVEY SURFACE WATER RUNOFF FROM THE ACTUAL TRIBUTARY AREA.

INSTALLATION OF 24" PIPE SHALL BE WATER TIGHT AT ALL JOINTS AND CONNECTIONS.

LOCATES CALL FOR ON MAY 8TH, 2009  
LOCATE TICKET NUMBER 9089038.

#### SUGGESTED CONSTRUCTION SEQUENCE

11. DETERMINE ELEVATION BETWEEN VAULT BOTTOM AND IE OUT OF STRUCTURE. ADJUST EXCAVATION SO THAT THE NEW IE AND THE OUT IE MATCH (INCLUDE ROCK BASE NOTED BELOW).
12. PLACE APPROX 4" OF 3/4" MINUS FOR LEVELING PROPOSES, THEN COMPACT MATERIAL UNDER VAULT. CHECK IES, FILL OR EXCAVATE AND RECOMPACT AS NEEDED.
13. SLIDE VAULT ONTO OUTLET STORM PIPE. ALIGN INLET AND VAULT INLET. SEAL JOINT BETWEEN VAULT AND PIPE AS NEEDED.
14. SLIDE 24" PIPE OUT OF CB AND INTO VAULT. SEAL JOINT BETWEEN VAULT AND PIPE AS NEEDED. RECONSTRUCT AND GROUT PIPE TO CATCH BASIN AS NEEDED.
15. FINISH INSTALLING VAULT STRUCTURES PER MANUFACTURES RECOMMENDATIONS.
16. BACKFILL AND COMPACT AS NEEDED AROUND VAULT.
17. REPLANT AND RESTORE SITE TO EQUIVALENT CONDITION PRIOR TO CONSTRUCTION.
18. REMOVE EROSION CONTROL MEASURES AND ORANGE CONSTRUCTION FENCING AFTER SOIL IS STABILIZED AND SITE IS NO LONGER A SAFETY HAZARD.
19. RESTORE LANDSCAPING AND IRRIGATION TO SATISFACTION OF STEVE BRENNAN.



EXPIRATION DATE: 12/31/



**CITY OF BEAVERTON**  
**PUBLIC WORKS DEPARTMENT**  
**ENGINEERING DIVISION**

DESIGNED BY:	MB	NO.		DATE	10/06/09	REVISION	CONSTRUCTION SET - ADJUSTED TO FIT VAULT SHOP DRAWINGS	BY	MB
DRAWN BY:	AB		1						
CHECKED BY:	MB								
APPROVED BY:	MB								

**SW 158TH AVENUE - STORM**  
**PRETREATMENT STRUCTURE**

**STORM PLAN AND PROFILE**

DATE:	8/04/09	PROJECT NO:	8073
SHEET NO:			3 OF 5

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PLOTED: 10/12/09 AT 7:59AM BY: aborrett



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SHEET	DATE	BY	REVISION
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DESIGNED BY: ARG DRAWN BY: ARG

DATE: 09/15/03

PROJECT NO.:

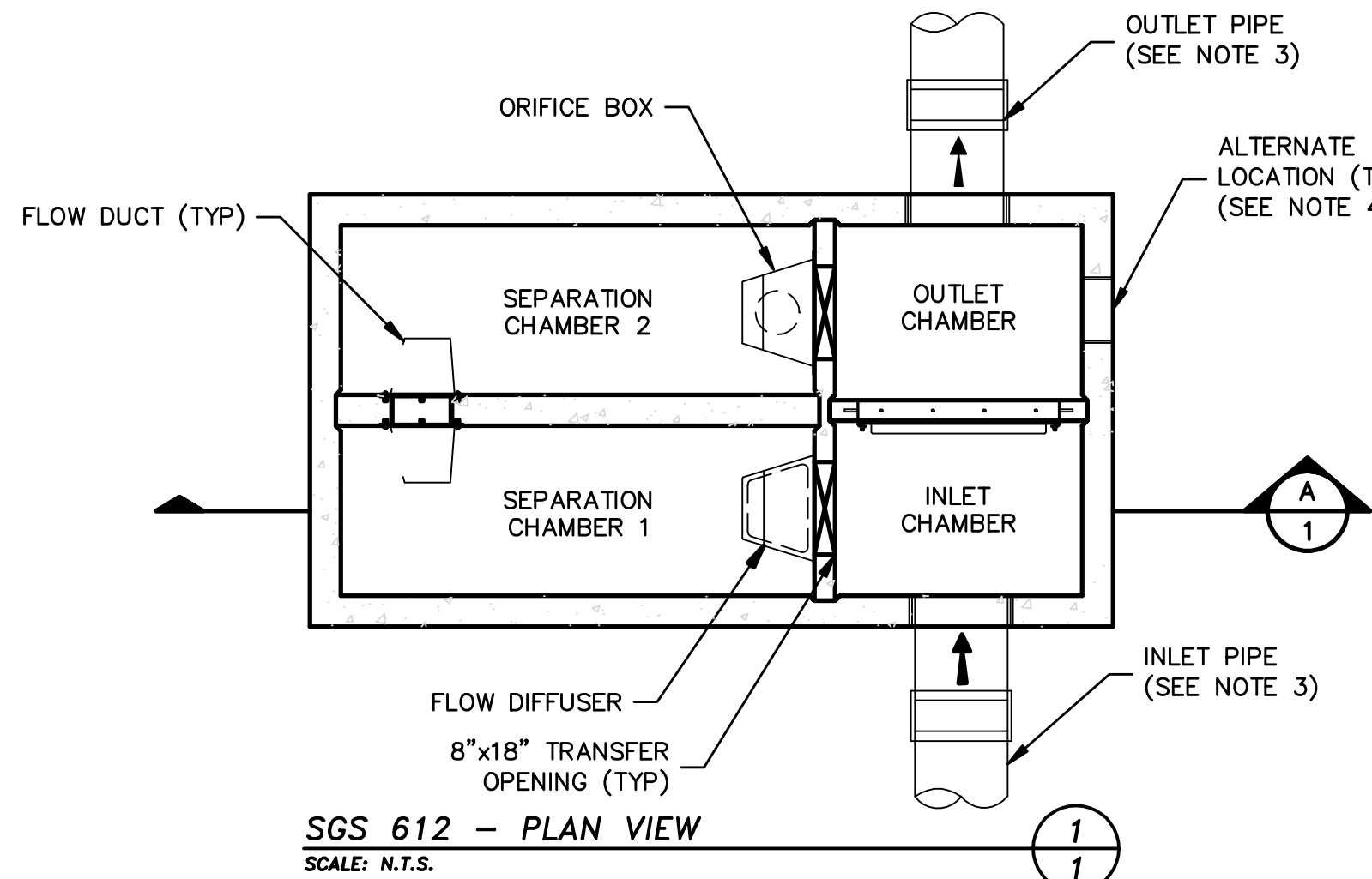
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STORMGATE SEPARATOR - SGS 612  
STANDARD DETAIL  
PLAN & SECTION VIEW

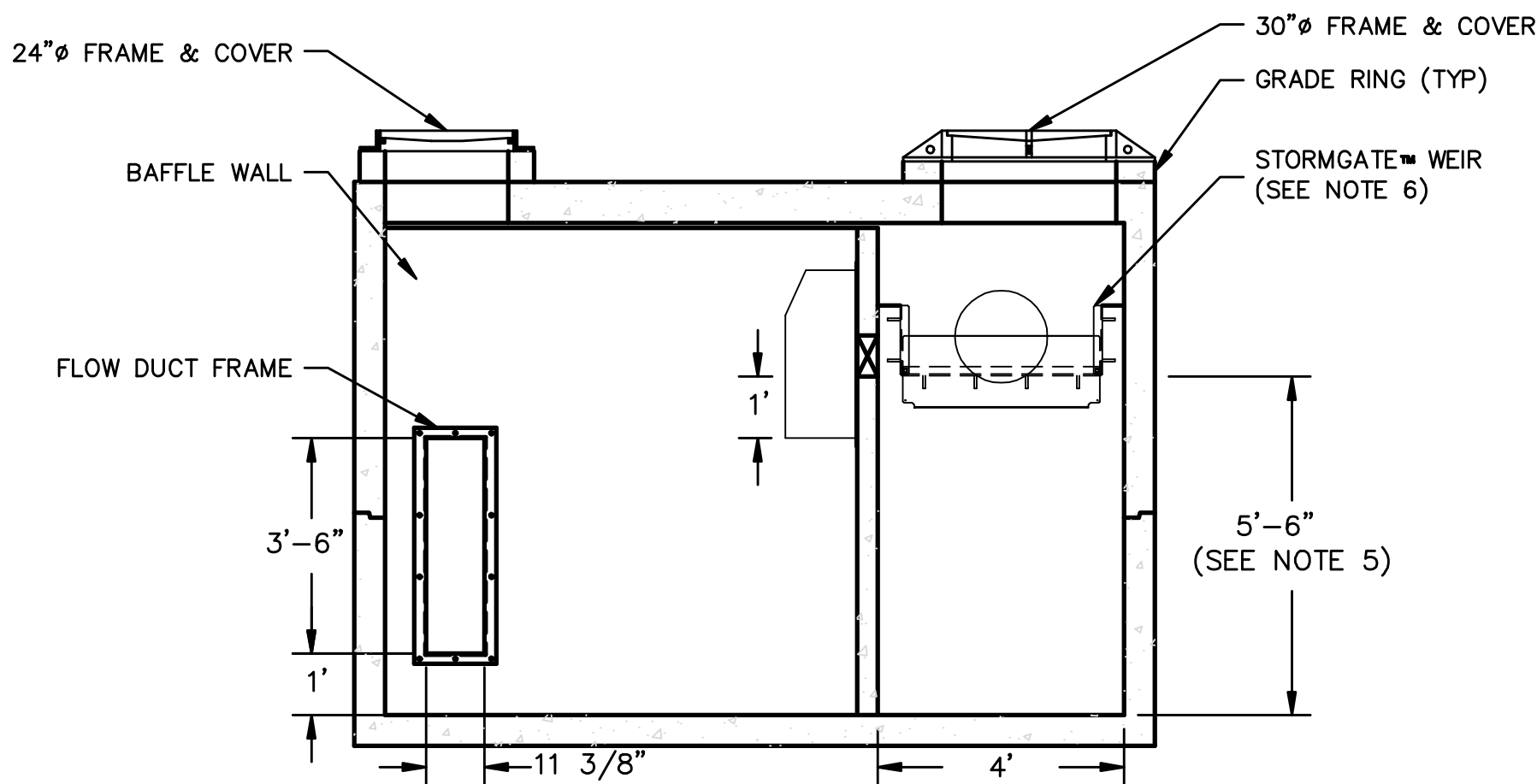
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SGS 612 - PLAN VIEW  
SCALE: N.T.S.



SGS 612 - SECTION VIEW  
SCALE: N.T.S.

SHEET	DATE	BY	REVISION
1/2			
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DESIGNED BY: ARG DRAWN BY: ARG

DATE: 12/05/03

PROJECT NO.:

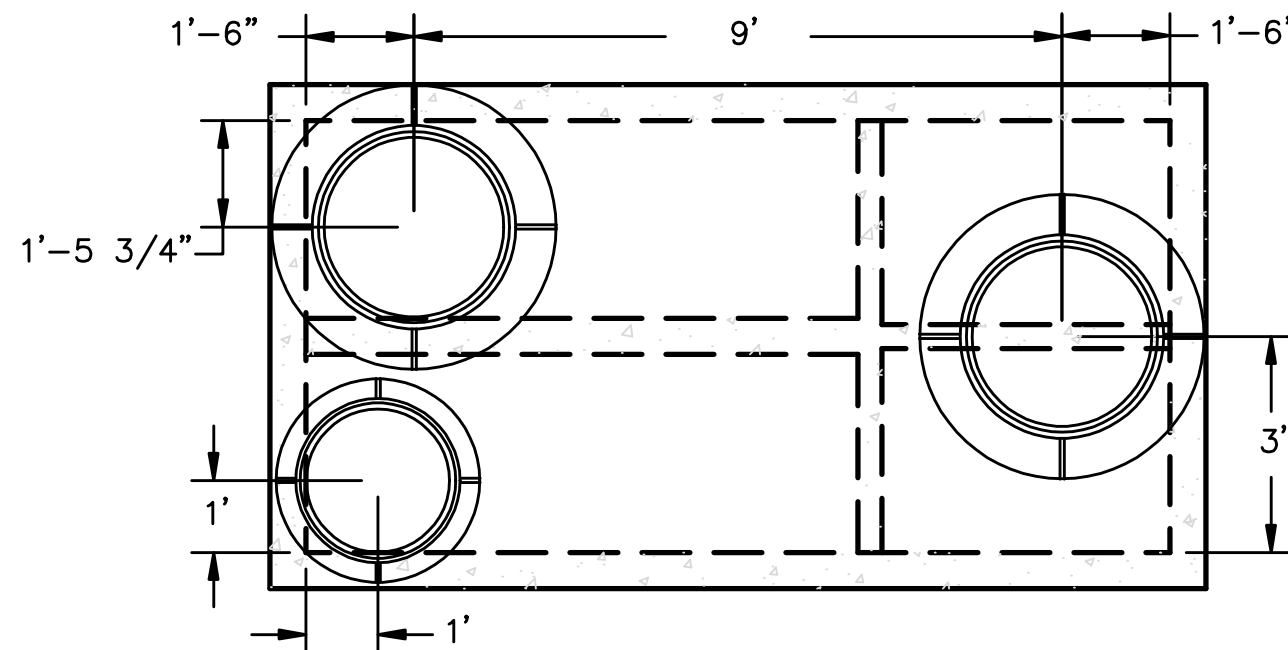
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STORMGATE SEPARATOR - SGS 612  
STANDARD DETAIL  
NOTES, SITE DATA & TOP VIEW

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SGS 612 - TOP VIEW  
SCALE: N.T.S.

NOTES:

SEE PAGE 5 FOR SHOP DRAWINGS. ACTUAL VAULT DIMENSIONS VARIED FROM THIS DETAIL.

APPROXIMATELY 8 WEEK ORDER TIME. CALL FOR INFO.

PROJECT INTENT - PRETREATMENT OF SURFACE  
WATER RUNOFF. CONSTRUCTED BY CITY FORCES  
NAD 83 OREGON STATE PLANE, NORTH ZONE, INTERNATIONAL FOOT



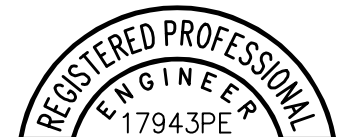
CITY OF BEAVERTON  
PUBLIC WORKS DEPARTMENT  
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DRAWN BY:	AB								
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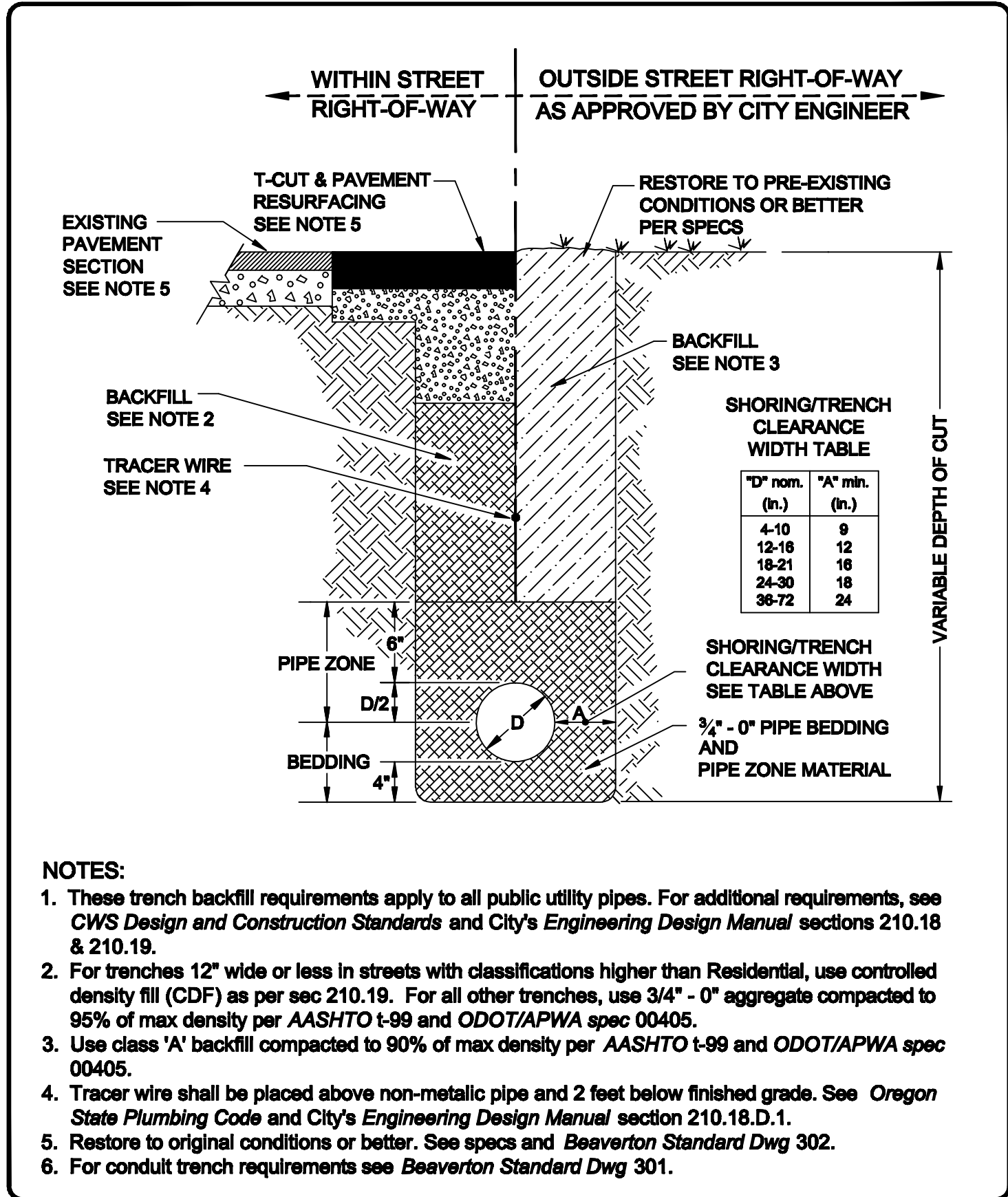
SW 158TH AVENUE - STORM  
PRETREATMENT STRUCTURE

DETAILS

DATE:	8/04/09	PROJECT NO:	8073
SHEET NO:			4 OF 5



EXPIRATION DATE: 12/31/



NOTES:

- These trench backfill requirements apply to all public utility pipes. For additional requirements, see CWS Design and Construction Standards and City's Engineering Design Manual sections 210.18 & 210.19.
- For trenches 12" wide or less in streets with classifications higher than Residential, use controlled density fill (CDF) as per sec 210.19. For all other trenches, use 3/4" - 0" aggregate compacted to 95% of max density per AASHTO t-99 and ODOT/APWA spec 00405.
- Use class 'A' backfill compacted to 90% of max density per AASHTO t-99 and ODOT/APWA spec 00405.
- Tracer wire shall be placed above non-metallic pipe and 2 feet below finished grade. See Oregon State Plumbing Code and City's Engineering Design Manual section 210.18.D.1.
- Restore to original conditions or better. See specs and Beaverton Standard Dwg 302.
- For conduit trench requirements see Beaverton Standard Dwg 301.



City Of Beaverton

PUBLIC WORKS  
DEPARTMENT

CITY ENGINEER  
Terry Walden, P.E.

DATE  
2 - 22 - 07

PIPE TRENCH  
BACKFILL

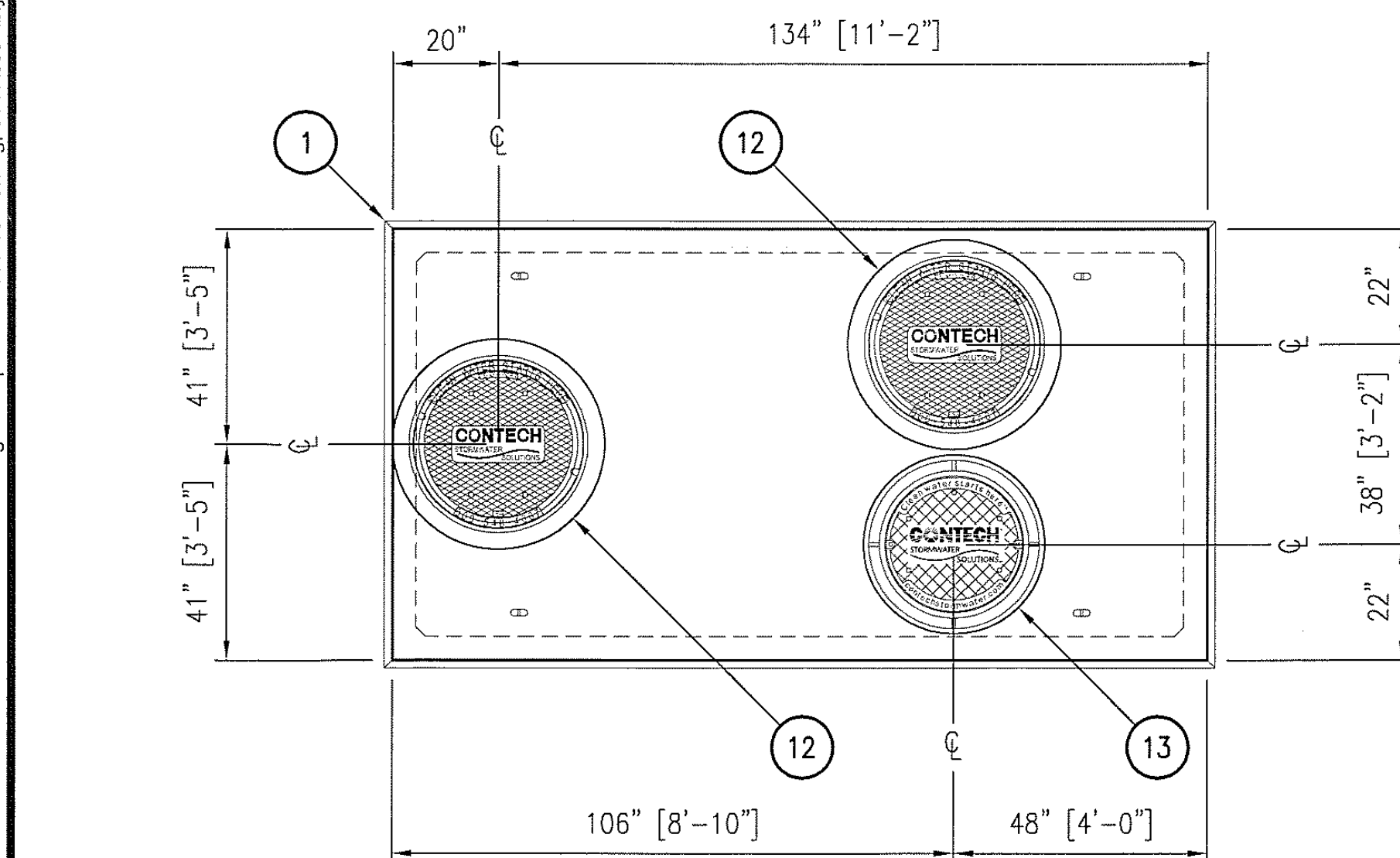
DRAWN BY  
JR - ED

DRAWING NO.  
300

FILE: X:\CAD SERVICES\DRAWINGS\2009\8073 - 158th Wq Outfall\CADD\8073-158th Outfall - SITE.dwg TAB:Detail - SHEET 4  
PLOTED: 10/12/09 AT 7:59AM BY: aborrett

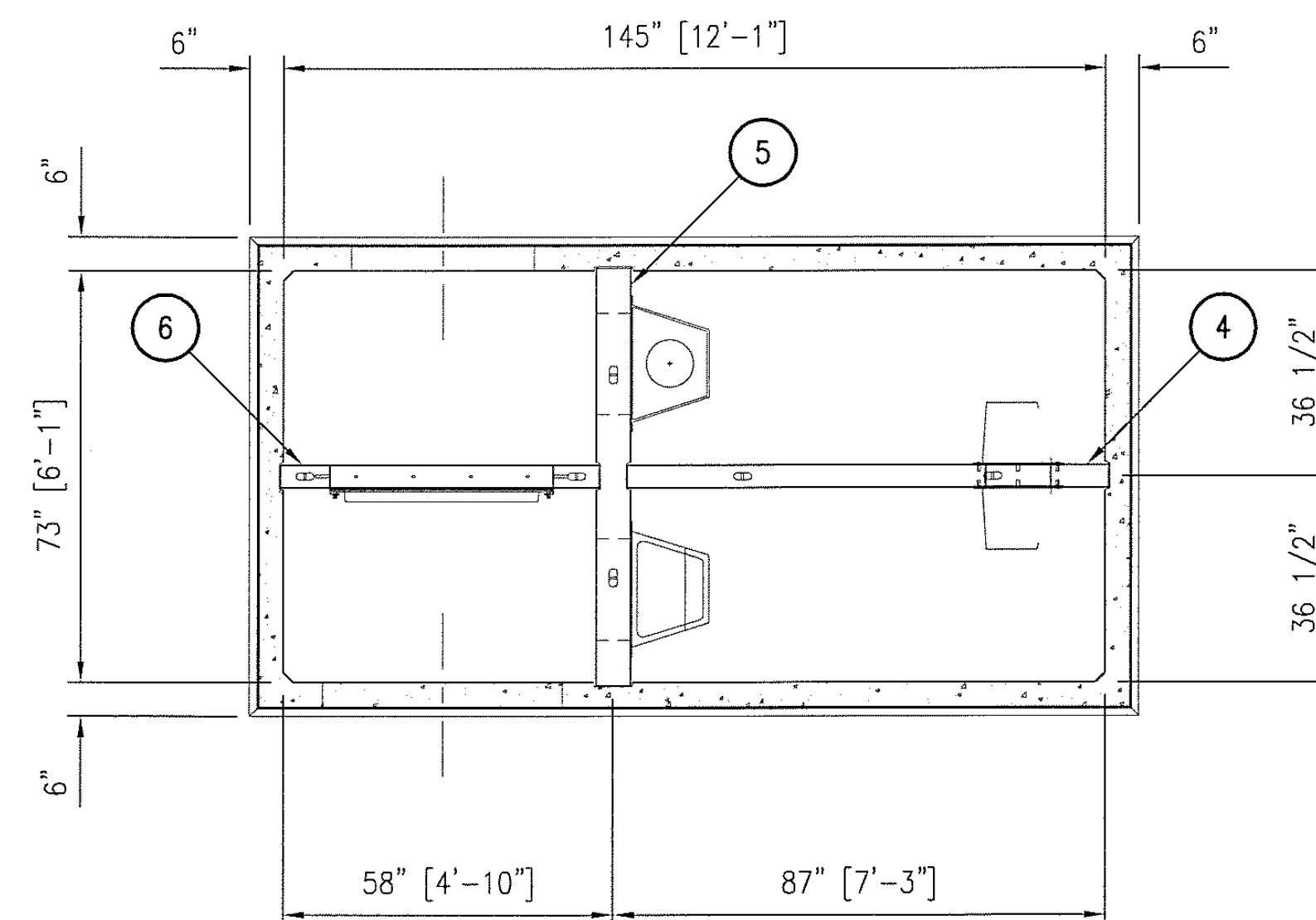


\\ENGINEERING01 - Jobs\CONTECH\JOBS\Costco-158h - 27284\612 Stormgate Separator 2009-09-28.dwg, 612 Assembly, 9/30/2009 4:22:29 PM, ballwbeil, 11x17

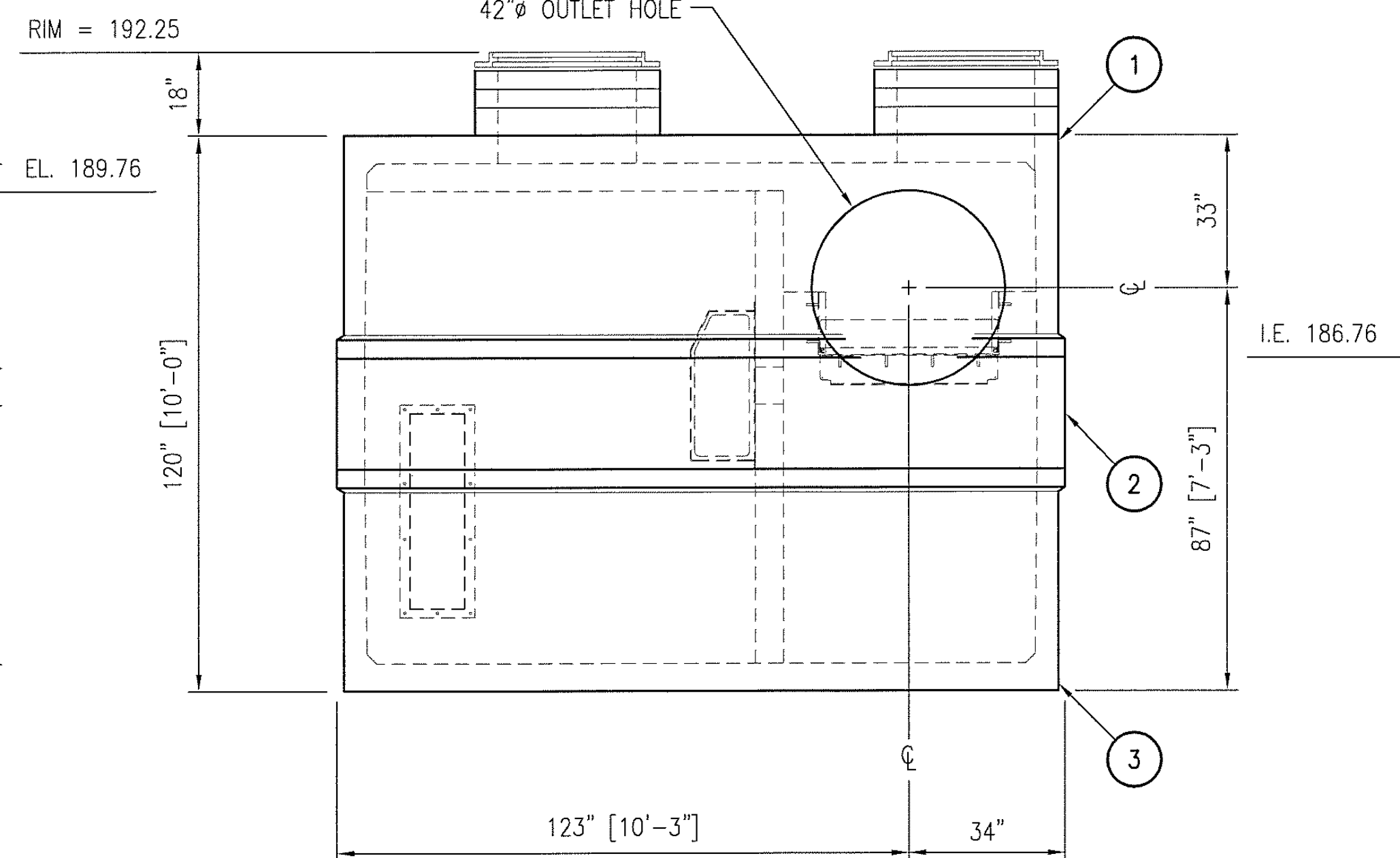


### PLAN VIEW

1. INLET & OUTLET OPENINGS SIZED & LOCATED AS PER CONTECH CONFIGURATION DRAWING.
2. CONTECH TO PROVIDE ADJUSTABLE WEIR PLATE, ORIFICE BOX, FLOW DIFFUSER & FLOW DUCT.
3. CORE &/OR BLOCK OUT AS REQUIRED TO FORM INLET/OUTLET OPENINGS IN COVER & RISER




**SECTION A-A**



**PRELIMINARY**  
FOR REVIEW ONLY -

13	-----	25"Ø x 4" CONTECH RING & COVER	1
12	-----	30"Ø x 3 1/4" CONTECH RING & COVER	2
11	-----	25"Ø x 4" GRADE RING	2
10	-----	25"Ø x 6" GRADE RING	1
9	-----	30"Ø x 4" GRADE RING	4
8	-----	30"Ø x 6" GRADE RING	2
7	-----	-----	--
6	-----	WEIR WALL – REINFORCING (PAGE 5 OF 5)	2
5	-----	DIVIDER WALL – REINFORCING (PAGE 4 OF 5)	2
4	-----	BAFFLE WALL – REINFORCING (PAGE 3 OF 5)	2
3	612.B.R.001	612 BASE – REINFORCING	1
2	612.R.R.001	612 RISER – REINFORCING x 24"	1
1	-----	612 COVER – REINFORCING (PAGE 2 OF 5)	1
ITEM	PART NO.	DESCRIPTION	QTY



755 N.E. Columbia Blvd. Portland, OR 97211

TITLE:

**CONTECH - STORMGATE SEPARATOR  
612 VAULT - ASSEMBLY**

PAPER SIZE:

11 x 17

DRAWN: JB	DATE: 09-28-09	REV:
CHECKED: RM	DATE: 09-28-09	PAGE: 1 OF 5

<b>DESIGNED BY:</b>	MB	<b>NO.</b>	<b>DATE</b>	<b>REVISION</b>	<b>BY</b>
<b>DRAWN BY:</b>	AB	1	10/06/09	CONSTRUCTION SET – ADJUSTED TO FIT VAULT SHOP DRAWINGS	MB
<b>CHECKED BY:</b>	MB				
<b>APPROVED BY:</b>	MB				

## VAULT SHOP DRAWINGS

DATE: 8/04/09	PROJECT NO: 8073
SHEET NO: 5 of 5	

FILE: Y:\CAD SERVICES\DRAWINGS\2009\8073 - 158th WQ OUTFALL\CADD\8073-158th Outfall - SITE.dwg TAB:Detail - SHEET 5  
PLOTTED: 10/12/09 AT 7:58AM BY: abarrett